2 Split cylindrical roller bearings

Split cylindrical roller bearings are designed to accommodate radial loads and are available either with or without outer ring flanges to fit different arrangements.

Designs and variants

SKF supplies split cylindrical roller bearings in two designs. They are manufactured as:

- locating bearings (**fig. 1**)
- non-locating bearings (**fig. 2**)

Locating bearings

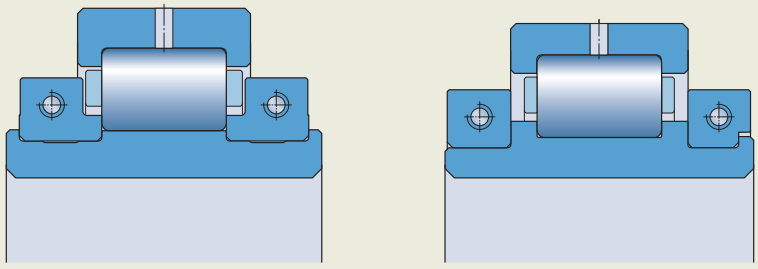
- have a split outer ring with integral flanges
- have a split inner ring clamped to the shaft with clamping rings
- have a split roller and cage assembly
- can withstand both radial and axial loads
- provide axial location
- are also known as fixed type bearings
- are identified by the designation suffix GR

Non-locating bearings

- have a split outer ring without flanges
- have a split inner ring clamped to the shaft with clamping rings
- have a split roller and cage assembly
- can withstand radial loads only
- can accommodate axial displacement when expansion or contraction occurs (offers virtually no resistance to axial movement as the rollers spiral through the outer ring raceway)
- are also known as expansion type bearings
- are identified by the designation suffix EX

Fig. 1

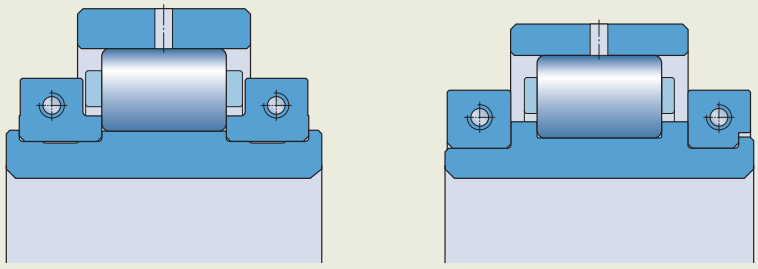
Locating bearings



D design C design

Fig. 2

Non-locating bearings



D design C design

Table 1

Standard assortment – split cylindrical roller bearings

Bearing series	Shaft diameter, d_a			
	Locating bearings in the		Non-locating bearings in the	
	D design	C design	D design	C design
–	mm/*in.*			
100	all sizes	–	all sizes	–
01/01E	≤ 300 / *12*	> 300 / *12*	≤ 300 / *12*	> 300 / *12*
02/02E	≤ 300 / *12*	> 300 / *12*	≤ 300 / *12*	> 300 / *12*
03/03E	≤ 155 / *6*	> 155 / *6*	≤ 155 / *6*	> 155 / *6*

Standard assortment

- four different series (**table 1**):
  - 100 series: compact (for high speeds)
  - 01/01E series: medium duty
  - 02/02E series: heavy duty
  - 03/03E series: very heavy duty
- fitted with one of the cages shown in **table 2**

Large size bearings

- have a bore diameter d > 600 mm (*24 in.*)
- are manufactured as:
  - locating bearings (designation suffix GR)
  - non-locating bearings (designation suffix EX)
- can be customized and modified to suit specific application requirements
- are available on request

Some popular large size bearings are shown in the **product table** on **page 98**. The information is provided as a guideline only as the bearings are often modified to suit specific application requirements. Bearings in the extra expansion design (designation suffix EXILOG) typically have different overall dimensions compared to the standard large size bearings. Other bearing options are also available, as outlined under *Designations* on **page 186**.

04 series bearings

- are light duty
- are manufactured as
  - locating bearings (designation suffix GR)
  - non-locating bearings (designation suffix EX)
- are suitable for high speeds
- can be modified to omit the high speed features as an economical solution for slow speed applications
- can be customized and modified to suit specific application requirements
- are available on request

Some popular 04 series bearings are shown in the **product table** on **page 100**.

Housings

Split cylindrical roller bearings are suitable for various housing types, the most common being:

- plummer block housings (**product tables**, **page 108**)
- flanged housings (**product tables**, **page 150**)

For large size bearings, SKF can supply suitable standard housings including cartridges as well as customized housings on request. For existing housings, mounting tolerances are also available on request.

Typically, 04 series bearings are mounted in housings integrated in the structure of the machine. SKF can manufacture housings on request.

Internal clearance

- Normal for temperatures up to 100 °C *(210 °F)* provided the difference between the shaft and housing temperature is not more than 40 °C
- C3 and C5 for higher temperatures or greater temperature differentials
- reduced clearance (C2) for specific applications, e.g. for reciprocating or vibratory applications

Table 2

Cages – split cylindrical roller bearings

Bearing series	Material			
	Polyamide	Brass	Medium carbon steel	Die cast or machined aluminium alloy
100	Standard for d ≤ 150 mm or *6 in.*	Standard for d > 150 mm or *6 in.*	–	–
01, 02, 03/03E	–	Optional	–	Standard
01E	–	Standard for d > 105 mm or *4 in.*	Standard for d ≤ 105 mm or *4 in.*	–
02E	–	Standard for d > 150 mm or *6 in.*	–	–

Loads

Minimum load For additional information, → **page 13**	**Locating bearings** $F_{rm} = C/65$ **Non-locating bearings** $F_{rm} = C/120$	**Symbols** C basic dynamic load rating [kN] (→ **product tables**, **page 74**) f_d dynamic factor (**table 3**) F_r radial load [kN] F_a axial load [kN] F_{rm} minimum radial load [kN] P equivalent dynamic bearing load [kN] P_0 equivalent static bearing load [kN]
Equivalent dynamic bearing load For additional information, → **page 11**	**Locating and Non-locating bearings** $P = F_r f_d$ with maximun axial load of $Fa \leq 0,4F_r$	
Equivalent static bearing load For additional information, → **page 12**	$P_0 = F_r$	

Temperature limits

The permissible operating temperature for SKF split cylindrical roller bearings can be limited by:

- the dimensional stability of the bearing rings and rolling elements
- the cages
- the seals
- the lubricant

The permissible operating temperature for standard bearings is normally up to 100 °C. The lower limit of operating temperatures is normally defined by the used lubricant, refer to Lubrication section **page 21**.

Where temperatures outside the permissible range are expected, contact SKF. High temperature variants are available upon request.

Table 3

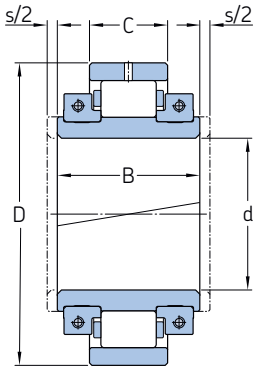
Dynamic factor

Conditions	f_d
Steady loads or small fluctuations	1 – 1,3
Light impact loads	1,3 – 2
Heavy impact loads, vibration or reciprocation	2 – 3,5

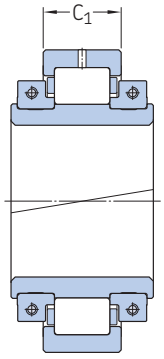
2.1 Split cylindrical roller bearings and cartridges

d_a **35 – 60** mm

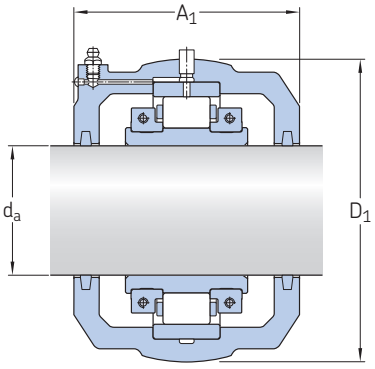
1 3/16 – 2 1/4 *in.*



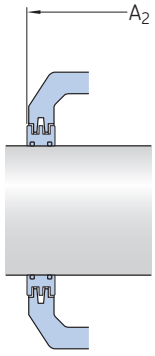
Non-locating



Locating



Felt seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

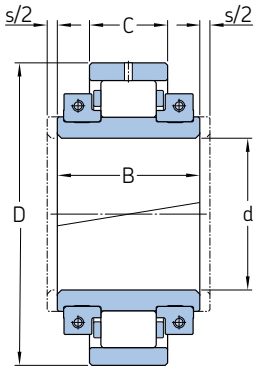
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
1 3/16	84,14	50,1	23,8	23,8	3,5	100	86	86
1 1/4	84,14	50,1	23,8	23,8	3,5	100	86	86
35	84,14	50,1	23,8	23,8	3,5	100	86	86
1 7/16	84,14	50,1	23,8	23,8	3,5	100	86	86
1 1/2	84,14	50,1	23,8	23,8	3,5	100	86	86
40	84,14	50,1	23,8	23,8	3,5	100	86	86
1 11/16	98,42	55,7	25,4	25,4	4	117,48	98	98
1 3/4	98,42	55,7	25,4	25,4	4	117,48	98	98
45	98,42	55,7	25,4	25,4	4	117,48	98	98
1 15/16	98,42 107,95	55,7 67,5	25,4 35	25,4 35	4 5	117,48 134,94	98 114	98 114
50	98,42 107,95	55,7 67,5	25,4 35	25,4 35	4 5	117,48 134,94	98 114	98 114
2	98,42 107,95	55,7 67,5	25,4 35	25,4 35	4 5	117,48 134,94	98 114	98 114
55	114,3	55,7	27	27	4,5	134,94	104	104
2 3/16	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
2 1/4	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
60	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

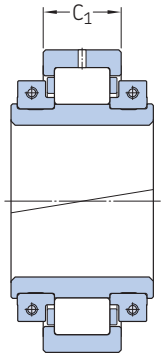
Shaft diameter	Load ratings dynamic	static	axial	Limiting speed	Mass Bearing	Cartridge	Designations[2] Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
1 3/16	81	86	3,6	5 400	1,2	2	**01EB103**	–	**01C1**
1 1/4	81	86	3,6	5 400	1,2	2	**01EB104**	–	**01C1**
35	81	86	3,6	5 400	1,2	2	**01EB35M**	–	**01C1**
1 7/16	81	86	3,6	5 400	1,2	2	**01EB107**	–	**01C1**
1 1/2	81	86	3,6	5 400	1,2	2	**01EB108**	**01C108**	**01C1**
40	81	86	3,6	5 400	1,2	2	**01EB40M**	**01C40M**	**01C1**
1 11/16	95	105	3,8	4 630	1,5	2,5	**01EB111**	**01C111**	**01C2**
1 3/4	95	105	3,8	4 630	1,5	2,5	**01EB112**	**01C112**	**01C2**
45	95	105	3,8	4 630	1,5	2,5	**01EB45M**	**01C45M**	**01C2**
1 15/16	95 139	105 152	3,8 9,3	4 630 4 350	1,5 2	2,5 4	**01EB115** **02EB115**	**01C115** **02C115**	**01C2** **02C3**
50	95 139	105 152	3,8 9,3	4 630 4 350	1,5 2	2,5 4	**01EB50M** **02EB50M**	**01C50M** **02C50M**	**01C2** **02C3**
2	95 139	105 152	3,8 9,3	4 630 4 350	1,5 2	2,5 4	**01EB200** **02EB200**	**01C200** **02C200**	**01C2** **02C3**
55	135	157	7,2	3 940	1,8	3,2	**01EB55M**	**01C55M**	**01C3**
2 3/16	135 179	157 205	7,2 13,5	3 940 3 680	1,8 3	3,2 7	**01EB203** **02EB203**	**01C203** **02C203**	**01C3** **02C4**
2 1/4	135 179	157 205	7,2 13,5	3 940 3 680	1,8 3	3,2 7	**01EB204** **02EB204**	**01C204** **02C204**	**01C3** **02C4**
60	135 179	157 205	7,2 13,5	3 940 3 680	1,8 3	3,2 7	**01EB60M** **02EB60M**	**01C60M** **02C60M**	**01C3** **02C4**

2.1 Split cylindrical roller bearings and cartridges

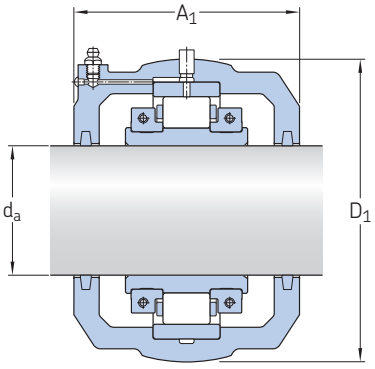
d_a **65 – 80** mm
2 7/16 – 3 1/4 *in.*



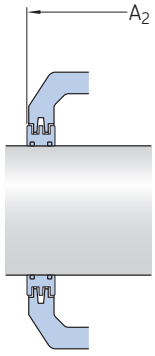
Non-locating



Locating



Felt seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
2 7/16	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
2 1/2	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
65	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
2 11/16	133,35 149,22	61,2 82,6	31,8 46,1	31,8 46,1	5 6	157,16 177,8	114 140	114 140
2 3/4	133,35 149,22	61,2 82,6	31,8 46,1	31,8 46,1	5 6	157,16 177,8	114 140	114 140
70	133,35 149,22	61,2 82,6	31,8 46,1	31,8 46,1	5 6	157,16 177,8	114 140	114 140
2 15/16	114,3 133,35 149,22	48 61,2 82,6	27 31,8 46,1	27 31,8 46,1	3,5 5 6	134,94 157,16 177,8	104 114 140	104 114 140
75	114,3 133,35 149,22	48 61,2 82,6	27 31,8 46,1	27 31,8 46,1	3,5 5 6	134,94 157,16 177,8	104 114 140	104 114 140
3	114,3 133,35 149,22	48 61,2 82,6	27 31,8 46,1	27 31,8 46,1	3,5 5 6	134,94 157,16 177,8	104 114 140	104 114 140
80	152,4 169,86	70,7 89,7	38,9 48,4	38,9 48,4	6 7	177,8 203,2	136 154	136 154
3 3/16	152,4 169,86	70,7 89,7	38,9 48,4	38,9 48,4	6 7	177,8 203,2	136 154	136 154
3 1/4	152,4 169,86	70,7 89,7	38,9 48,4	38,9 48,4	6 7	177,8 203,2	136 154	136 154

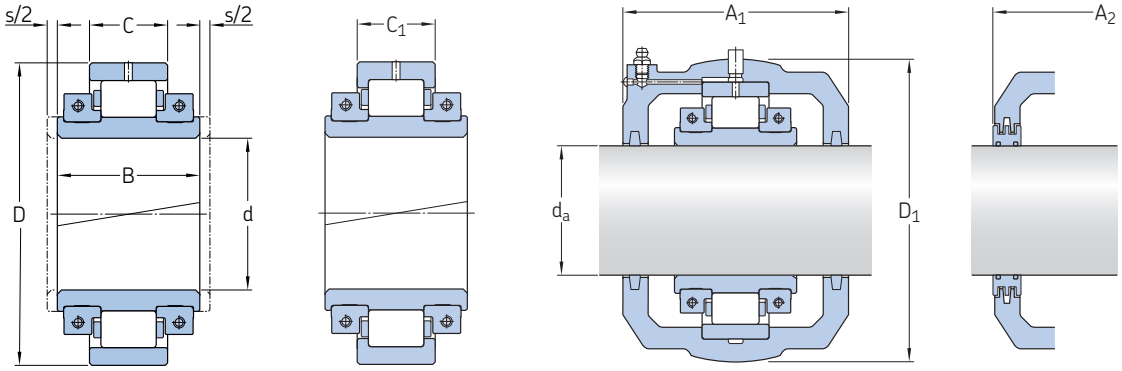
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings dynamic	static	axial	Limiting speed	Mass Bearing	Cartridge	Designations[2] Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
2 7/16	135	157	7,2	3 940	1,8	3,2	**01EB207**	**01C207**	**01C3**
	179	205	13,5	3 680	3	7	**02EB207**	**02C207**	**02C4**
2 1/2	135	157	7,2	3 940	1,8	3,2	**01EB208**	**01C208**	**01C3**
	179	205	13,5	3 680	3	7	**02EB208**	**02C208**	**02C4**
65	135	157	7,2	3 940	1,8	3,2	**01EB65M**	**01C65M**	**01C3**
	179	205	13,5	3 680	3	7	**02EB65M**	**02C65M**	**02C4**
2 11/16	166	197	10,8	3 310	2,5	5,5	**01EB211**	**01C211**	**01C4**
	264	330	13,7	3 080	5	9	**02EB211**	**02C211**	**02C5**
2 3/4	166	197	10,8	3 310	2,5	5,5	**01EB212**	**01C212**	**01C4**
	264	330	13,7	3 080	5	9	**02EB212**	**02C212**	**02C5**
70	166	197	10,8	3 310	2,5	5,5	**01EB70M**	**01C70M**	**01C4**
	264	330	13,7	3 080	5	9	**02EB70M**	**02C70M**	**02C5**
2 15/16	91	128	7	4 125	1,2	3,6	**100B215**	**100C215**	**100C3**
	166	197	10,8	3 310	2,5	5,5	**01EB215**	**01C215**	**01C4**
	264	330	13,7	3 080	5	9	**02EB215**	**02C215**	**02C5**
75	91	128	7	4 125	1,2	3,6	**100B75M**	**100C75M**	**100C3**
	166	197	10,8	3 310	2,5	5,5	**01EB75M**	**01C75M**	**01C4**
	264	330	13,7	3 080	5	9	**02EB75M**	**02C75M**	**02C5**
3	91	128	7	4 125	1,2	3,6	**100B300**	**100C300**	**100C3**
	166	197	10,8	3 310	2,5	5,5	**01EB300**	**01C300**	**01C4**
	264	330	13,7	3 080	5	9	**02EB300**	**02C300**	**02C5**
80	234	299	13,6	2 790	4	7	**01EB80M**	**01C80M**	**01C5**
	305	387	18,8	2 520	7	10	**02EB80M**	**02C80M**	**02C6**
3 3/16	234	299	13,6	2 790	4	7	**01EB303**	**01C303**	**01C5**
	305	387	18,8	2 520	7	10	**02EB303**	**02C303**	**02C6**
3 1/4	234	299	13,6	2 790	4	7	**01EB304**	**01C304**	**01C5**
	305	387	18,8	2 520	7	10	**02EB304**	**02C304**	**02C6**

2.1 Split cylindrical roller bearings and cartridges

d_a **85 – 100** mm

3 7/16 – 4 *in.*



Non-locating | Locating | Felt seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
85	133,35	60	31,8	31,8	5	157,16	114	114
	152,4	70,7	38,9	38,9	6	177,8	136	136
	169,86	89,7	48,4	48,4	7	203,2	154	154
3 7/16	133,35	60	31,8	31,8	5	157,16	114	114
	152,4	70,7	38,9	38,9	6	177,8	136	136
	169,86	89,7	48,4	48,4	7	203,2	154	154
3 1/2	152,4	70,7	38,9	38,9	6	177,8	136	136
	169,86	89,7	48,4	48,4	7	203,2	154	154
90	152,4	70,7	38,9	38,9	6	177,8	136	136
	169,86	89,7	48,4	48,4	7	203,2	154	154
3 11/16	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
95	174,62	81	45,3	45,3	7	203,2	134	134
3 3/4	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
100	152,4	65	38,9	38,9	6	177,8	136	136
	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
	254	136	84,2	84,2	11	308	200	206
3 15/16	152,4	65	38,9	38,9	6	177,8	136	136
	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
	254	136	84,2	84,2	11	308	200	206
4	152,4	65	38,9	38,9	6	177,8	136	136
	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
	254	136	84,2	84,2	11	308	200	206

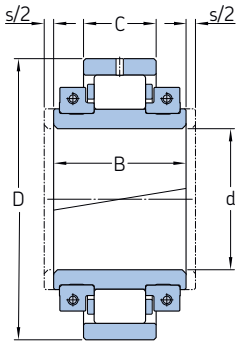
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
85	142	209	12,3	3 600	2,1	5,4	**100B85M**	**100C85M**	**100C4**
	234	299	13,6	2 790	4	7	**01EB85M**	**01C85M**	**01C5**
	305	387	18,8	2 520	7	10	**02EB85M**	**02C85M**	**02C6**
3 7/16	142	209	12,3	3 600	2,1	5,4	**100B307**	**100C307**	**100C4**
	234	299	13,6	2 790	4	7	**01EB307**	**01C307**	**01C5**
	305	387	18,8	2 520	7	10	**02EB307**	**02C307**	**02C6**
3 1/2	234	299	13,6	2 790	4	7	**01EB308**	**01C308**	**01C5**
	305	387	18,8	2 520	7	10	**02EB308**	**02C308**	**02C6**
90	234	299	13,6	2 790	4	7	**01EB90M**	**01C90M**	**01C5**
	305	387	18,8	2 520	7	10	**02EB90M**	**02C90M**	**02C6**
3 11/16	320	421	19,6	2 340	6	8	**01EB311**	**01C311**	**01C6**
	388	491	26,0	2 130	9	12	**02EB311**	**02C311**	**02C7**
95	320	421	19,6	2 340	6	8	**01EB95M**	**01C95M**	**01C6**
3 3/4	320	421	19,6	2 340	6	8	**01EB312**	**01C312**	**01C6**
	388	491	26,0	2 130	9	12	**02EB312**	**02C312**	**02C7**
100	191	288	18,3	3 090	2,8	7,4	**100B100M**	**100C100M**	**100C5**
	320	421	19,6	2 340	6	8	**01EB100M**	**01C100M**	**01C6**
	388	491	26,0	2 130	9	12	**02EB100M**	**02C100M**	**02C7**
	610	684	31,2	1 820	30	41	**03B100M**	**03C100M**	**03C54**
3 15/16	191	288	18,3	3 090	2,8	7,4	**100B315**	**100C315**	**100C5**
	320	421	19,6	2 340	6	8	**01EB315**	**01C315**	**01C6**
	388	491	26,0	2 130	9	12	**02EB315**	**02C315**	**02C7**
	610	684	31,2	1 820	30	41	**03B315**	**03C315**	**03C54**
4	191	288	18,3	3 090	2,8	7,4	**100B400**	**100C400**	**100C5**
	320	421	19,6	2 340	6	8	**01EB400**	**01C400**	**01C6**
	388	491	26,0	2 130	9	12	**02EB400**	**02C400**	**02C7**
	610	684	31,2	1 820	30	41	**03B400**	**03C400**	**03C54**

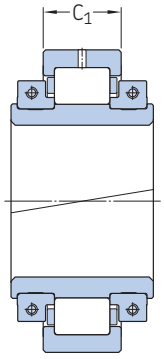
2.1 Split cylindrical roller bearings and cartridges

d_a **105 – 125** mm

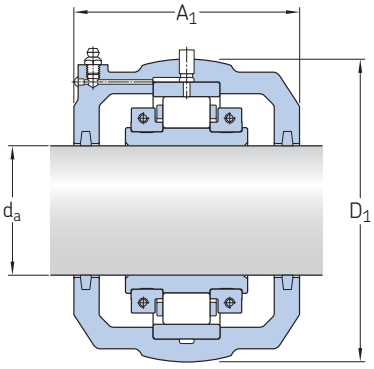
4 3/16 – 4 1/2 *in.*



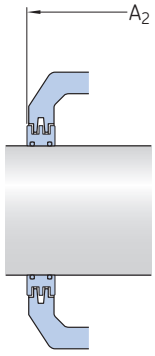
Non-locating



Locating



Felt seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
105	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
4 3/16	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
110	174,62	80	45,3	45,3	7	203,2	134	134
	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
	266,7	147	87,3	87,3	11	323,85	210	222
4 7/16	174,62	80	45,3	45,3	7	203,2	134	134
	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
	266,7	147	87,3	87,3	11	323,85	210	222
4 1/2	174,62	80	45,3	45,3	7	203,2	134	134
	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
	266,7	147	87,3	87,3	11	323,85	210	222
115	174,62	80	45,3	45,3	7	203,2	134	134
	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
120	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184
	266,7	147	87,3	87,3	11	323,85	210	222
125	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184

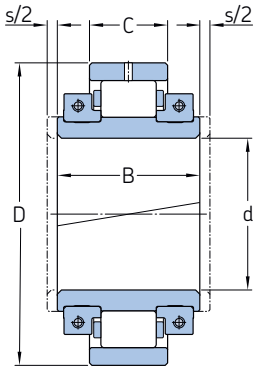
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
105	320	421	19,6	2 340	6	8	**01EB105M**	**01C105M**	**01C6**
	388	491	26,0	2 130	9	12	**02EB105M**	**02C105M**	**02C7**
4 3/16	306	407	18,6	1 970	10	12	**01B403**	**01C403**	**01C7**
	454	583	31,2	1 820	16	19	**02B403**	**02C403**	**02C8**
110	279	426	22,2	2 750	4,6	7,9	**100B110M**	**100C110M**	**100C6**
	334	446	20,9	1 970	10	12	**01EB110M**	**01C110M**	**01C7**
	498	628	43,6	1 820	16	19	**02EB110M**	**02C110M**	**02C8**
	614	698	39,2	1 640	36	46	**03B110M**	**03C110M**	**03C55**
4 7/16	279	426	22,2	2 750	4,6	7,9	**100B407**	**100C407**	**100C6**
	334	446	20,9	1 970	10	12	**01EB407**	**01C407**	**01C7**
	498	628	43,6	1 820	16	19	**02EB407**	**02C407**	**02C8**
	614	698	39,2	1 640	36	46	**03B407**	**03C407**	**03C55**
4 1/2	279	426	22,2	2 750	4,6	7,9	**100B408**	**100C408**	**100C6**
	334	446	20,9	1 970	10	12	**01EB408**	**01C408**	**01C7**
	498	628	43,6	1 820	16	19	**02EB408**	**02C408**	**02C8**
	614	698	39,2	1 640	36	46	**03B408**	**03C408**	**03C55**
115	279	426	22,2	2 750	4,6	7,9	**100B115M**	**100C115M**	**100C6**
	334	446	20,9	1 970	10	12	**01EB115M**	**01C115M**	**01C7**
	498	628	43,6	1 820	16	19	**02EB115M**	**02C115M**	**02C8**
120	280	433	23,8	2 480	7,4	11	**100B120M**	**100C120M**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB120M**	**01C120M**	**01C8**
	613	794	56,8	1 600	20	26	**02EB120M**	**02C120M**	**02C10**
	614	698	39,2	1 640	36	46	**03B120M**	**03C120M**	**03C55**
125	280	433	23,8	2 480	7,4	11	**100B125M**	**100C125M**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB125M**	**01C125M**	**01C8**
	613	794	56,8	1 600	20	26	**02EB125M**	**02C125M**	**02C10**

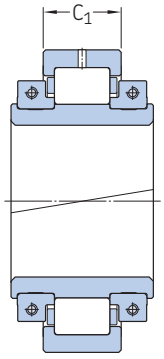
2.1 Split cylindrical roller bearings and cartridges

d_a **130 – 145** mm

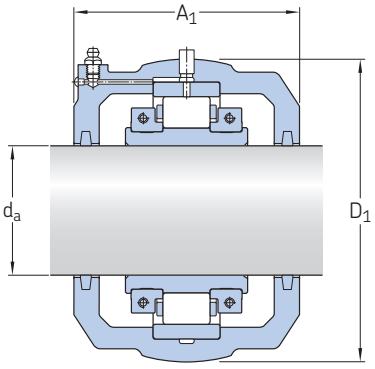
4 15/16 – 5 1/2 *in.*



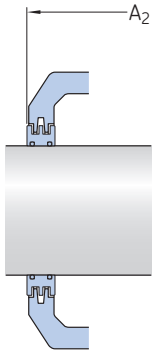
Non-locating



Locating



Felt seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
4 15/16	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184
	279,4	140	73,1	84,2	11	323,85	214	222
5	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184
	279,4	140	73,1	84,2	11	323,85	214	222
130	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184
	279,4	140	73,1	84,2	11	323,85	214	222
5 3/16	241,3	98,4	55,6	55,6	8	279,4	168	168
	273,05	117,5	66,7	66,7	10	323,85	188	188
135	241,3	98,4	55,6	55,6	8	279,4	168	168
5 7/16	222,25	90	54	54	7	266,7	156	156
	241,3	98,4	55,6	55,6	8	279,4	168	168
	273,05	117,5	66,7	66,7	10	323,85	188	188
	304,8	147	79,4	90,5	12	355,6	216	230
5 1/2	222,25	90	54	54	7	266,7	156	156
	241,3	98,4	55,6	55,6	8	279,4	168	168
	273,05	117,5	66,7	66,7	10	323,85	188	188
	304,8	147	79,4	90,5	12	355,6	216	230
140	222,25	90	54	54	7	266,7	156	156
	241,3	98,4	55,6	55,6	8	279,4	168	168
	273.05	117.5	66.7	66.7	10	323.85	188	188
	304.8	147	79.4	90,5	12	355.6	216	230
145	273,05	117,5	66,7	66,7	10	323,85	188	188

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.

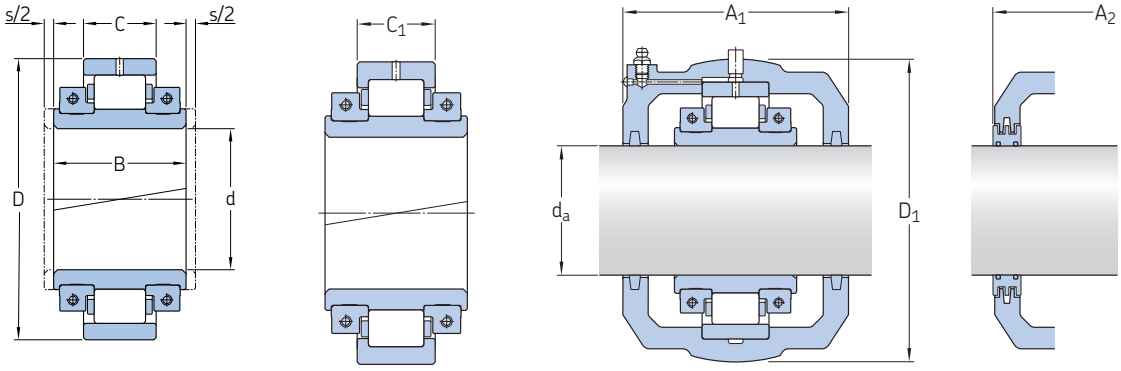
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
4 15/16	280	433	23,8	2 480	7,4	11	**100B415**	**100C415**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB415**	**01C415**	**01C8**
	613	794	56,8	1 600	20	26	**02EB415**	**02C415**	**02C10**
	706	852	49	1 500	36	48	**03B415**	**03C415**	**03C56**
5	280	433	23,8	2 480	7,4	11	**100B500**	**100C500**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB500**	**01C500**	**01C8**
	613	794	56,8	1 600	20	26	**02EB500**	**02C500**	**02C10**
	706	852	49	1 500	36	48	**03B500**	**03C500**	**03C56**
130	280	433	23,8	2 480	7,4	11	**100B130M**	**100C130M**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB130M**	**01C130M**	**01C8**
	613	794	56,8	1 600	20	26	**02EB130M**	**02C130M**	**02C10**
	706	852	49	1 500	36	48	**03B130M**	**03C130M**	**03C56**
5 3/16	475	683	35,8	1 570	15	21	**01EB503**	**01C503**	**01C9**
	649	854	62,6	1 450	24	33	**02EB503**	**02C503**	**02C30**
135	394	542	25,8	1 570	15	21	**01B135M**	**01C135M**	**01C9**
5 7/16	331	520	30,5	2 250	9,3	18,5	**100B507**	**100C507**	**100C8**
	475	683	35,8	1 570	15	21	**01EB507**	**01C507**	**01C9**
	649	854	62,6	1 450	24	33	**02EB507**	**02C507**	**02C30**
	886	1 069	58,8	1 340	44	52	**03B507**	**03C507**	**03C57**
5 1/2	331	520	30,5	2 250	9,3	18,5	**100B508**	**100C508**	**100C8**
	475	683	35,8	1 570	15	21	**01EB508**	**01C508**	**01C9**
	649	854	62,6	1 450	24	33	**02EB508**	**02C508**	**02C30**
	886	1 069	58,8	1 340	44	52	**03B508**	**03C508**	**03C57**
140	331	520	30,5	2 250	9,3	18,5	**100B140M**	**100C140M**	**100C8**
	475	683	35,8	1 570	15	21	**01EB140M**	**01C140M**	**01C9**
	649	854	62,6	1 450	24	33	**02EB140M**	**02C140M**	**02C30**
	886	1 069	58,8	1 340	44	52	**03B140M**	**03C140M**	**03C57**
145	649	854	62,6	1 450	24	33	**02EB145M**	**02C145M**	**02C30**

2.1 Split cylindrical roller bearings and cartridges

d_a **150 – 160** mm

5 15/16 – 6 1/2 *in.*



Non-locating | Locating | Felt seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
150	241,3	90	55,6	55,6	8	279,4	168	168
	254	98,4	55,6	55,6	8	295,28	174	174
	292,1	123,8	68,3	68,3	10	336,55	204	204
	330,2	160	81	96,9	13	393,7	232	254
5 15/16	241,3	90	55,6	55,6	8	279,4	168	168
	254	98,4	55,6	55,6	8	295,28	174	174
	292,1	123,8	68,3	68,3	10	336,55	204	204
	330,2	160	81	96,9	13	393,7	232	254
6	241,3	90	55,6	55,6	8	279,4	168	168
	254	98,4	55,6	55,6	8	295,28	174	174
	292,1	123,8	68,3	68,3	10	336,55	204	204
	330,2	160	81	96,9	13	393,7	232	254
155	254	98,4	55,6	55,6	8	295,28	174	174
	292,1	123,8	68,3	68,3	10	336,55	204	204
160	254	98,4	55,6	–	8	295,28	174	174
	254	98,4	–	55,6	–	295,28	174	174
	273,05	109	60,3	60,3	8	311,15	172	192
	292,1	123,8	68,3	–	10	336,55	204	204
	292,1	123,8	–	68,3	–	336,55	204	204
	317,5	140	83,3	83,3	11	368,3	206	232
	355,6	171	103,2	103,2	14	422,3	244	268
6 7/16	273,05	109	60,3	60,3	8	311,15	172	192
	317,5	140	83,3	83,3	11	368,3	206	232
	355,6	171	103,2	103,2	14	422,3	244	268
6 1/2	273,05	109	60,3	60,3	8	311,15	172	192
	317,5	140	83,3	83,3	11	368,3	206	232
	355,6	171	103,2	103,2	14	422,3	244	268

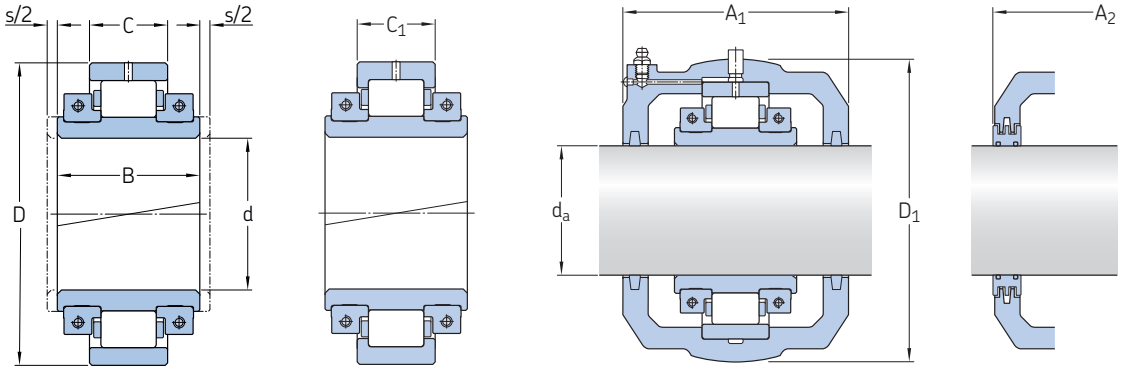
1) "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
2) Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
3) Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
150	397	606	31,4	2 060	10,5	19,5	**100B150M**	**100C150M**	**100C9**
	511	767	40,3	1 450	16,5	24,5	**01EB150M**	**01C150M**	**01C10**
	732	1 017	70,9	1 320	29	39	**02EB150M**	**02C150M**	**02C31**
	994	1 213	69,4	1 220	57	70	**03B150M**	**03C150M**	**03C58**
5 15/16	397	606	31,4	2 060	10,5	19,5	**100B515**	**100C515**	**100C9**
	511	767	40,3	1 450	16,5	24,5	**01EB515**	**01C515**	**01C10**
	732	1 017	70,9	1 320	29	39	**02EB515**	**02C515**	**02C31**
	994	1 213	69,4	1 220	57	70	**03B515**	**03C515**	**03C58**
6	397	606	31,4	2 060	10,5	19,5	**100B600**	**100C600**	**100C9**
	511	767	40,3	1 450	16,5	24,5	**01EB600**	**01C600**	**01C10**
	732	1 017	70,9	1 320	29	39	**02EB600**	**02C600**	**02C31**
	994	1 213	69,4	1 220	57	70	**03B600**	**03C600**	**03C58**
155	511	767	40,3	1 450	16,5	24,5	**01EB155M**	**01C155M**	**01C10**
	732	1 017	70,9	1 320	29	39	**02EB155M**	**02C155M**	**02C31**
160	511	767	–	1 450	16,5	24,5	**01EB160MEX10**[3]	**01C160MEX14**[3]	**01C10EX10**[3]
	511	767	40,3	1 450	16,5	24,5	**01EB160MGR10**[3]	**01C160MGR10**[3]	**01C10GR10**[3]
	511	767	40,3	1 320	21	30	**01EB160M**	**01C160M**	**01C11**
	732	1 017	–	1 320	29	39	**02EB160MEX10**[3]	**02C160MEX10**[3]	**02C31EX10**[3]
	732	1 017	70,9	1 320	29	39	**02EB160MGR10**[3]	**02C160MGR10**[3]	**02C31GR10**[3]
	732	1 017	70,9	1 200	39	56	**02EB160M**	**02C160M**	**02C32**
	1 156	1 564	79,2	1 110	72	81	**03B160M**	**03C160M**	**03C59**
6 7/16	594	863	56,5	1 320	21	30	**01EB607**	**01C607**	**01C11**
	887	1 262	71,2	1 200	39	56	**02EB607**	**02C607**	**02C32**
	1 156	1 564	79,2	1 110	72	81[3]	**03B607**	**03C607**	**03C59**
6 1/2	594	863	56,5	1 320	21	30	**01EB608**	**01C608**	**01C11**
	887	1 262	71,2	1 200	39	56	**02EB608**	**02C608**	**02C32**
	1 156	1 564	79,2	1 110	72	81	**03B608**	**03C608**	**03C59**

2.1 Split cylindrical roller bearings and cartridges

d_a **170 – 200** mm

6 15/16 – 7 15/16 *in.*



Non-locating | Locating | Felt seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

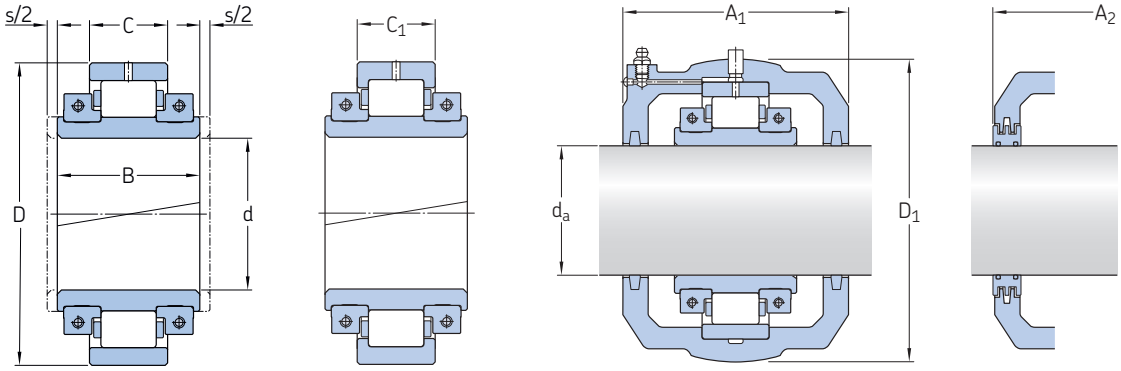
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
170	273,05	109	60,3	–	8	311,15	172	192
	273,05	109	–	60,3	–	311,15	172	192
	285,75	109	55,5	55,5	8	323,85	172	200
	317,5	140	83,3	–	11	368,3	206	232
	317,5	140	–	83,3	–	368,3	206	232
	355,6	171	103,2	103,2	14	422,3	244	268
175	285,75	109	55,5	55,5	8	323,85	172	200
	330,2	140	83,3	83,3	11	381	222	242
6 15/16	285,75	109	55,5	55,5	8	323,85	172	200
	330,2	140	83,3	83,3	11	381	222	242
	374,65	178	92,1	108,8	15	431,8	254	284
7	285,75	109	55,5	55,5	8	323,85	172	200
	330,2	140	83,3	83,3	11	381	222	242
	374,65	178	92,1	108,8	15	431,8	254	284
180	285,75	109	55,5	55,5	8	323,85	172	200
	330,2	140	83,3	83,3	11	381	222	242
	374,65	178	92,1	108,8	15	431,8	254	284
190	311,15	109	60,3	60,3	8	358,78	172	200
	368,3	156	90,5	90,5	13	425,5	235	258
	419,1	191	97,7	118,3	16	489	270	300
200	285,75	109	55,5	55,5	6	323,85	172	[4]
	311,15	109	60,3	60,3	8	358,78	172	200
	368,3	156	90,5	90,5	13	425,5	235	258
	419,1	191	97,7	118,3	16	489	270	300
7 15/16	285,75	109	55,5	55,5	6	323,85	172	[4]
	311,15	109	60,3	60,3	8	358,78	172	200
	368,3	156	90,5	90,5	13	425,5	235	258
	419,1	191	97,7	118,3	16	489	270	300

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.
[4] Contact SKF.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
170	594	863	–	1 320	21	30	**01EB170MEX13**[3]	**01C170MEX13**[3]	**01C11EX10**[3]
	594	863	56,5	1 320	21	30	**01EB170MGR14**[3]	**01C170MGR15**[3]	**01C11GR10**[3]
	557	845	52,2	1 220	23	31	**01EB170M**	**01C170M**	**01C12**
	887	1 262	–	1 200	39	56	**02EB170M**	**02C170M**	**02C32EX10**[3]
	887	1 262	71,2	1 200	39	56	**02EB170M**	**02C170M**	**02C32GR10**[3]
	1 156	1 564	79,2	1 110	72	81	**03B170M**	**03C170M**	**03C59**
175	557	845	52,2	1 220	23	31	**01EB175M**	**01C175M**	**01C12**
	936	1 334	82,8	1 120	45	66	**02EB175M**	**02C175M**	**02C33**
6 15/16	557	845	52,2	1 220	23	31	**01EB615**	**01C615**	**01C12**
	936	1 334	82,8	1 120	45	66	**02EB615**	**02C615**	**02C33**
	1 242	1 704	89	1 030	79	87	**03B615**	**03C615**	**03C60**
7	557	845	52,2	1 220	23	31	**01EB700**	**01C700**	**01C12**
	936	1 334	82,8	1 120	45	66	**02EB700**	**02C700**	**02C33**
	1 242	1 704	89	1 030	79	87	**03B700**	**03C700**	**03C60**
180	557	845	52,2	1 220	23	31	**01EB180M**	**01C180M**	**01C12**
	936	1 334	82,8	1 120	45	66	**02EB180M**	**02C180M**	**02C33**
	1 242	1 704	89	1 030	79	87	**03B180M**	**03C180M**	**03C60**
190	679	1 078	72,5	1 070	25	41	**01EB190M**	**01C190M**	**01C13**
	1 137	1 627	122	960	59	84	**02EB190M**	**02C190M**	**02C34**
	1 451	2 022	99,6	880	105	109	**03B190M**	**03C190M**	**03C61**
200	325	571	48	1 070	18	24	**100B200M**	**100C200M**	[4]
	679	1 078	72,5	1 070	25	41	**01EB200M**	**01C200M**	**01C13**
	1 137	1 627	122	960	59	84	**02EB200M**	**02C200M**	**02C34**
	1 451	2 022	99,6	880	105	109	**03B200M**	**03C200M**	**03C61**
7 15/16	325	571	48	1 070	18	24	**100B715**	**100C715**	[4]
	679	1 078	72,5	1 070	25	41	**01EB715**	**01C715**	**01C13**
	1 137	1 627	122	960	59	84	**02EB715**	**02C715**	**02C34**
	1 451	2 022	99,6	880	105	109	**03B715**	**03C715**	**03C61**

2.1 Split cylindrical roller bearings and cartridges

d_a **220 – 270** mm
8 – 10 *in.*



Non-locating | Locating | Felt seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
8	285,75	109	55,5	55,5	6	323,85	172	[4]
	311,15	109	60,3	60,3	8	358,78	172	200
	368,3	156	90,5	90,5	13	425,5	235	258
	419,1	191	97,7	118,3	16	489	270	300
220	311,15	109	60,3	60,3	8	358,78	172	[4]
	342,9	115	63,5	63,5	8	387,35	178	216
	393,7	163	90,5	90,5	13	457,2	242	274
	469,9	212	109,6	131,8	18	546,1	298	334
9	342,9	115	63,5	63,5	8	387,35	178	216
	393,7	163	90,5	90,5	13	457,2	242	274
	469,9	212	109,6	131,8	18	546,1	298	334
230	342,9	115	63,5	63,5	8	387,35	178	216
	393,7	163	90,5	90,5	13	457,2	242	274
240	374,65	122	66,7	66,7	9	419,1	188	222
	431,8	170	96,8	96,8	13	495,3	248	280
	482,6	211	105,6	124,6	18	558,8	298	334
250	374,65	122	66,7	66,7	9	419,1	188	222
	431,8	170	96,8	96,8	13	495,3	248	280
	482,6	211	105,6	124,6	18	558,8	298	334
10	374,65	122	66,7	66,7	9	419,1	188	222
	431,8	170	96,8	96,8	13	495,3	248	280
	482,6	211	105,6	124,6	18	558,8	298	334
260	374,65	122	66,7	–	9	419,1	188	222
	374,65	122	–	66,7	–	419,1	188	222
	406,4	128	69	69	10	454	204	232
	431,8	170	96,8	–	13	495,3	248	280
	431,8	170	–	96,8	–	495,3	248	280
	482,6	211	105,6	–	18	558,8	298	334
	482,6	211	–	124,6	–	558,8	298	334
270	406,4	128	69	69	10	454	204	232

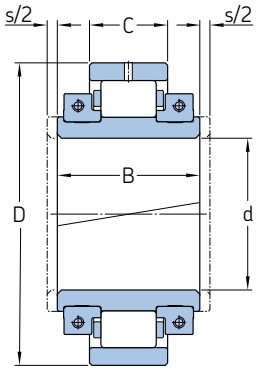
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.
[4] Contact SKF.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
8	325	571	48	1 070	18	24	**100B800**	**100C800**	[4]
	679	1 078	72,5	1 070	25	41	**01EB800**	**01C800**	**01C13**
	1 137	1 627	122	960	59	84	**02EB800**	**02C800**	**02C34**
	1 451	2 022	99,6	880	105	109	**03B800**	**03C800**	**03C61**
220	515	814	50	930	29	35	**100B220M**	**100C220M**	[4]
	715	1 191	79,8	930	32	46	**01EB220M**	**01C220M**	**01C14**
	1 233	1 863	138	850	68	98	**02EB220M**	**02C220M**	**02C35**
	1 586	2 163	109,4	760	145	155	**03B220M**	**03C220M**	**03C62**
9	715	1 191	79,8	930	32	46	**01EB900**	**01C900**	**01C14**
	1 233	1 863	138	850	68	98	**02EB900**	**02C900**	**02C35**
	1 586	2 163	109,4	760	145	155	**03B900**	**03C900**	**03C62**
230	715	1 191	79,8	930	32	46	**01EB230M**	**01C230M**	**01C14**
	1 233	1 863	138	850	68	98	**02EB230M**	**02C230M**	**02C35**
240	804	1 367	96,6	820	40	58	**01EB240M**	**01C240M**	**01C15**
	1 346	1 986	167	750	77	105	**02EB240M**	**02C240M**	**02C36**
	1 778	2 551	131	700	150	161	**03B240M**	**03C240M**	**03C63**
250	804	1 367	96,6	820	40	58	**01EB250M**	**01C250M**	**01C15**
	1 346	1 986	167	750	77	105	**02EB250M**	**02C250M**	**02C36**
	1 778	2 551	131	700	150	161	**03B250M**	**03C250M**	**03C63**
10	804	1 367	96,6	820	40	58	**01EB1000**	**01C1000**	**01C15**
	1 346	1 986	167	750	77	105	**02EB1000**	**02C1000**	**02C36**
	1 778	2 551	131	700	150	161	**03B1000**	**03C1000**	**03C63**
260	804	1 367	–	820	40	58	**01EB260MEX16**[3]	**01C260MEX15**[3]	**01C15EX15**[3]
	804	1 367	96,6	820	40	58	**01EB260MGR15**[3]	**01C260MGR12**[3]	**01C15GR13**[3]
	917	1 560	127	730	50	70	**01EB260M**	**01C260M**	**01C16**
	1 346	1 986	–	750	77	105	**02EB260M**	**02C260M**	**02C36EX10**[3]
	1 346	1 986	167	750	77	105	**02EB260M**	**02C260M**	**02C36GR11**[3]
	1 778	2 551	–	700	150	161	**03B260M**	**03C260M**	**03C63EX10**[3]
	1 778	2 551	131	700	150	161	**03B260M**	**03C260M**	**03C63GR10**[3]
270	917	1 560	127	730	50	70	**01EB270M**	**01C270M**	**01C16**

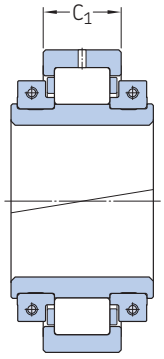
2.1 Split cylindrical roller bearings and cartridges

d_a **275 – 340** mm

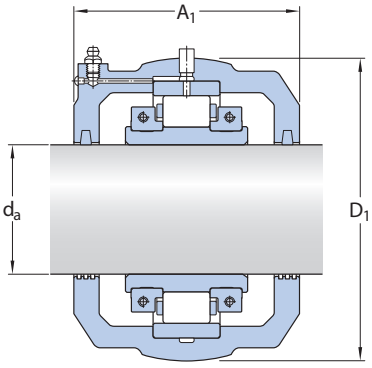
11 – 13 *in.*



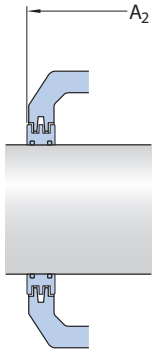
Non-locating



Locating



Felt / Grease groove seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

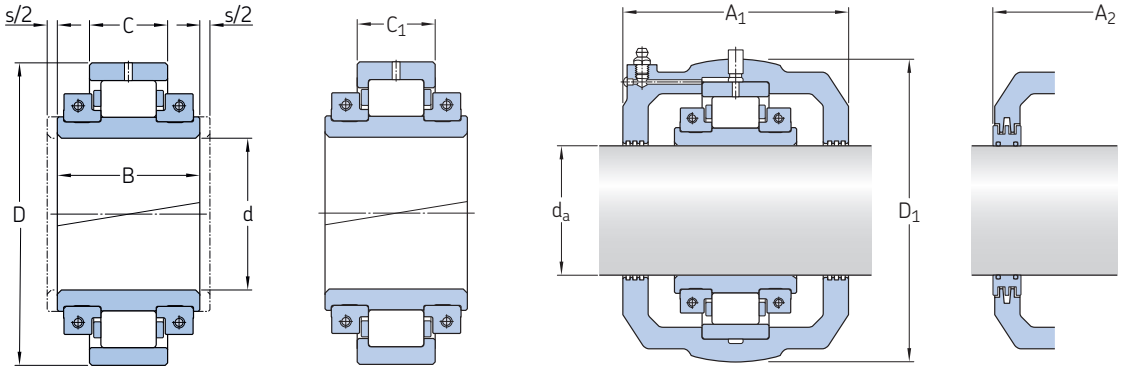
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
275	406,4	128	69	69	10	454	204	232
11	406,4	128	69	69	10	454	204	232
	463,55	186	101,6	101,6	14	527,1	264	300
	495,3	244	139,7	139,7	20	571,5	356	356
280	406,4	128	69	69	10	454	204	232
	463,55	186	101,6	101,6	14	527,1	264	300
	495,3	244	139,7	139,7	20	571,5	356	356
290	438,15	143	74,6	74,6	10	489	216	248
	558,8	244	139,7	139,7	19	641,4	346	370
300	438,15	143	74,6	74,6	10	489	216	248
	495,3	193	103,2	103,2	14	552,5	268	306
	558,8	244	139,7	139,7	19	641,4	346	370
12	438,15	143	74,6	74,6	10	489	216	246
	495,3	193	103,2	103,2	14	552,5	368	306
	558,8	244	139,7	139,7	19	641,4	346	370
320	463,55	136	74,6	74,6	10	520,7	260	272
	527,05	192	106,4	106,4	15	587,4	298	330
	622,3	272	160,4	160,4	22	717,6	368	418
330	463,55	136	74,6	74,6	10	520,7	260	272
	527,05	192	106,4	106,4	15	587,4	298	330
13	463,55	136	74,6	74,6	10	520,7	260	272
	527,05	192	106,4	106,4	15	587,4	298	330
	622,3	272	160,4	160,4	22	717,6	368	418
340	463,55	136	74,6	–	10	520,7	260	272
	463,55	136	–	74,6	–	520,7	260	272
	488,95	136	74,6	74,6	10	546,1	260	272
	565,15	200	115,9	115,9	16	628,7	305	342
	615,95	279	158	158	22	704,9	432	432

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt / grease groove seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
275	917	1 560	127	730	50	70	**01EB275M**	**01C275M**	**01C16**
11	917	1 560	127	730	50	70	**01EB1100**	**01C1100**	**01C16**
	1 545	2 435	190	670	86	131	**02EB1100**	**02C1100**	**02C37**
	2 105	3 233	153	620	182	204	**03EB1100**	**03EC1100**	**03EC83**
280	917	1 560	127	730	50	70	**01EB280M**	**01C280M**	**01C16**
	1 545	2 435	190	670	86	131	**02EB280M**	**02C280M**	**02C37**
	2 105	3 233	153	620	182	204	**03EB280M**	**03EC280M**	**03EC83**
290	1 041	1 885	139	650	60	86	**01EB290M**	**01C290M**	**01C17**
	2 156	3 312	174	560	238	239	**03B290M**	**03C290M**	**03C65**
300	1 041	1 885	139	650	60	86	**01EB300M**	**01C300M**	**01C17**
	1 660	2 735	214	610	123	129	**02EB300M**	**02C300M**	**02C38**
	2 156	3 312	174	560	238	239	**03B300M**	**03C300M**	**03C65**
12	1 041	1 885	139	650	60	86	**01EB1200**	**01C1200**	**01C17**
	1 660	2 735	214	610	123	129	**02EB1200**	**02C1200**	**02C38**
	2 156	3 312	174	560	238	239	**03B1200**	**03C1200**	**03C65**
320	894	1 638	89	590	72	106	**01B320M**	**01C320M**	**01C18**
	1 570	2 622	144	550	150	172	**02B320M**	**02C320M**	**02C39**
	2 529	3 795	199	500	327	273	**03B320M**	**03C320M**	**03C66**
330	894	1 638	89	590	72	106	**01B330M**	**01C330M**	**01C18**
	1 570	2 622	144	550	150	172	**02B330M**	**02C330M**	**02C39**
13	894	1 638	89	590	72	106	**01B1300**	**01C1300**	**01C18**
	1 570	2 622	144	550	150	172	**02B1300**	**02C1300**	**02C39**
	2 529	3 795	199	500	327	273	**03B1300**	**03C1300**	**03C66**
340	894	1 638	–	590	72	106	**01B340MEX13**[3]	**01C340MEX12**[3]	**01C18EX**[3]
	894	1 638	89	590	72	106	**01B340MGR13**[3]	**01C340MGR11**[3]	**01C18GR**[3]
	935	1 774	99,6	540	78	117	**01B340M**	**01C340M**	**01C19**
	1 744	2 940	159	500	182	186	**02B340M**	**02C340M**	**02C40**
	2 750	4 392	214	460	318	385	**03EB340M**	**03EC340M**	**03EC86**

2.1 Split cylindrical roller bearings and cartridges

d_a **350 – 420** mm
14 – 17 *in.*



Non-locating | Locating | Grease groove seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

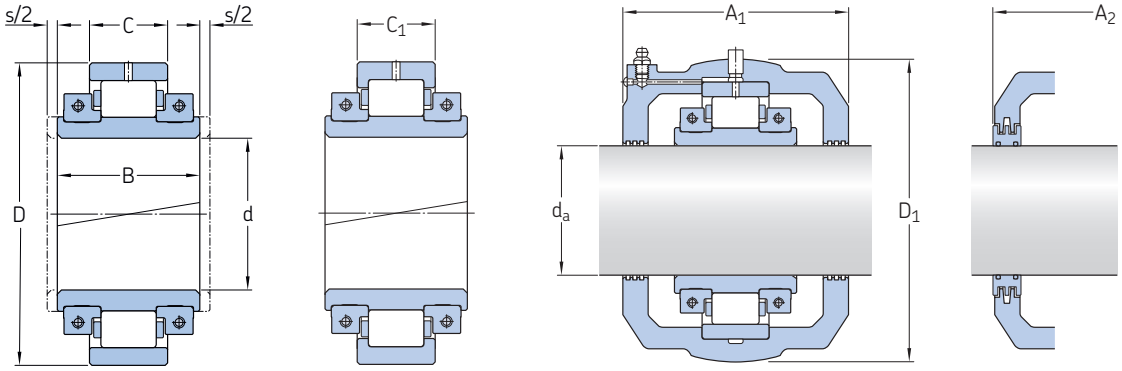
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
350	488,95	136	74,6	74,6	10	546,1	260	272
	565,15	200	115,9	115,9	16	628,7	305	342
14	488,95	136	74,6	74,6	10	546,1	260	272
	565,15	200	115,9	115,9	16	628,7	305	342
	615,95	279	158	158	22	704,9	432	432
360	488,95	136	74,6	–	10	546,1	260	272
	488,95	136	–	74,6	–	546,1	260	272
	520,7	140	76,2	76,2	10	571,5	260	280
	565,15	200	115,9	115,9	16	628,7	305	342
	615,95	279	158	158	22	704,9	432	432
380	520,7	140	76,2	76,2	10	571,5	260	280
	584,2	200	111,1	111,1	16	647,7	305	342
	685,8	292	166,7	166,7	23	774,7	400	438
15	520,7	140	76,2	76,2	10	571,5	260	280
	584,2	200	111,1	111,1	16	647,7	305	342
	685,8	292	166,7	166,7	23	774,7	400	438
390	546,1	140	76,2	76,2	10	603,3	280	286
400	546,1	140	76,2	76,2	10	603,3	280	286
	615,95	200	115,9	115,9	16	685,8	324	350
	685,8	292	166,7	166,7	23	774,7	400	438
16	546,1	140	76,2	76,2	10	603,3	280	286
	615,95	200	115,9	115,9	16	685,8	324	350
420	571,5	140	76,2	76,2	10	628,7	292	298
	647,7	200	119,1	119,1	17	717,6	324	356
	700	284	160	160	23	788	440	442
17	571,5	140	76,2	76,2	10	628,7	292	298
	647,7	200	119,1	119,1	17	717,6	324	356
	700	284	160	160	23	788	440	442

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
350	935	1 774	99,6	540	78	117	**01B350M**	**01C350M**	**01C19**
	1 744	2 940	159	500	182	186	**02B350M**	**02C350M**	**02C40**
14	935	1 774	99,6	540	78	117	**01B1400**	**01C1400**	**01C19**
	1 744	2 940	159	500	182	186	**02B1400**	**02C1400**	**02C40**
	2 750	4 392	214	460	318	385	**03EB1400**	**03EC1400**	**03EC86**
360	935	1 774	–	540	78	117	**01B360MEX15**[3]	**01C360MEX13**[3]	**01C19EX**[3]
	935	1 774	99,6	540	78	117	**01B360MGR15**[3]	**01C360MGR16**[3]	**01C19GR**[3]
	1 005	1 925	110	500	86	126	**01B360M**	**01C360M**	**01C20**
	1 744	2 940	159	500	182	186	**02B360M**	**02C360M**	**02C40**
	2 750	4 392	214	460	318	385	**03EB360M**	**03EC360M**	**03EC86**
380	1 005	1 925	110	500	86	126	**01B380M**	**01C380M**	**01C20**
	1 862	3 254	174	460	186	209	**02B380M**	**02C380M**	**02C41**
	3 019	4 800	251	420	431	399	**03B380M**	**03C380M**	**03C68**
15	1 005	1 925	110	500	86	126	**01B1500**	**01C1500**	**01C20**
	1 862	3 254	174	460	186	209	**02B1500**	**02C1500**	**02C41**
	3 019	4 800	251	420	431	399	**03B1500**	**03C1500**	**03C68**
390	1 048	2 071	116	460	95	141	**01B390M**	**01C390M**	**01C21**
400	1 048	2 071	116	460	95	141	**01B400M**	**01C400M**	**01C21**
	1 948	3 438	188	430	209	254	**02B400M**	**02C400M**	**02C42**
	3 019	4 800	251	420	431	399	**03B400M**	**03C400M**	**03C68**
16	1 048	2 071	116	460	95	141	**01B1600**	**01C1600**	**01C21**
	1 948	3 438	188	430	209	254	**02B1600**	**02C1600**	**02C42**
420	1 089	2 218	121	430	104	150	**01B420M**	**01C420M**	**01C22**
	2 069	3 702	202	400	241	264	**02B420M**	**02C420M**	**02C43**
	3 474	6 006	276	360	395	408	**03EB420M**	**03EC420M**	**03EC89**
17	1 089	2 218	121	430	104	150	**01B1700**	**01C1700**	**01C22**
	2 069	3 702	202	400	241	264	**02B1700**	**02C1700**	**02C43**
	3 474	6 006	276	360	395	408	**03EB1700**	**03EC1700**	**03EC89**

2.1 Split cylindrical roller bearings and cartridges

d_a **440 – 530** mm
18 – 22 *in.*



Non-locating | Locating | Grease groove seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
440	596,9	140	76,2	76,2	10	650,9	304	310
	666,75	200	115,9	115,9	17	733,4	324	356
	700	284	160	160	23	788	440	442
18	596,9	140	76,2	76,2	10	650,9	304	310
	666,75	200	115,9	115,9	17	733,4	324	356
	740	294	170	170	24	840	450	450
460	596,9	140	76,2	76,2	10	650,9	304	310
	666,75	200	115,9	115,9	17	733,4	324	356
	740	294	170	170	24	840	450	450
480	628,65	144	81	81	11	682,6	304	324
	698,5	223	119,1	119,1	17	762	338	374
19	628,65	144	81	81	11	682,6	304	324
	698,5	223	119,1	119,1	17	762	338	374
500	654,05	168	80,2	80,2	11	717,6	304	330
	717,55	226	115,9	115,9	17	787,4	350	374
	850,9	300	187,4	187,4	26	958,9	495	508
20	654,05	168	80,2	80,2	11	717,6	304	330
	717,55	226	115,9	115,9	17	787,4	350	374
	850,9	300	187,4	187,4	26	958,9	495	508
530	692,15	168	81	81	11	755,7	330	336
	762	229	119,1	119,1	18	831,9	350	374
	850,9	300	187,4	187,4	26	958,9	495	508
21	692,15	168	81	81	11	755,7	330	336
	762	229	119,1	119,1	18	831,9	350	374
22	717,55	168	81	81	11	781,1	336	342
	793,75	233	122,2	122,2	18	866,8	356	380
	863,6	310	196,9	196,9	28	958,9	490	490

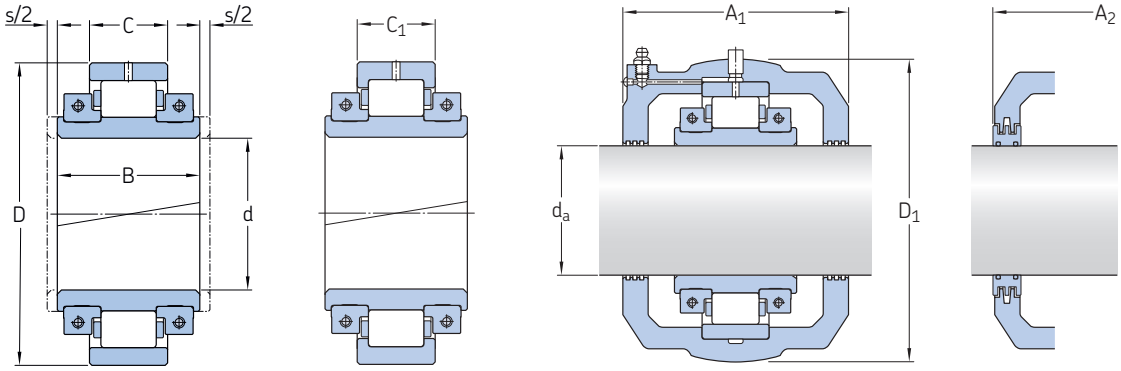
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	**Load ratings** dynamic	static	axial	**Limiting speed**	**Mass** Bearing	Cartridge	**Designations**[2] Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
440	1 129	2 366	127	410	114	151	**01B440M**	**01C440M**	**01C23**
	2 195	4 057	216	380	250	265	**02B440M**	**02C440M**	**02C44**
	3 474	6 006	276	360	395	408	**03EB440M**	**03EC440M**	**03EC89**
18	1 129	2 366	127	410	114	151	**01B1800**	**01C1800**	**01C23**
	2 195	4 057	216	380	250	265	**02B1800**	**02C1800**	**02C44**
	3 650	6 156	302	340	431	454	**03EB1800**	**03EC1800**	**03EC90**
460	1 129	2 366	127	410	114	151	**01B460M**	**01C460M**	**01C23**
	2 195	4 057	216	380	250	265	**02B460M**	**02C460M**	**02C44**
	3 650	6 156	302	340	431	454	**03EB460M**	**03EC460M**	**03EC90**
480	1 169	2 433	133	380	128	162	**01B480M**	**01C480M**	**01C24**
	2 313	4 419	230	360	263	272	**02B480M**	**02C480M**	**02C45**
19	1 169	2 433	133	380	128	162	**01B1900**	**01C1900**	**01C24**
	2 313	4 419	230	360	263	272	**02B1900**	**02C1900**	**02C45**
500	1 213	2 593	138	360	136	192	**01B500M**	**01C500M**	**01C25**
	2 430	4 776	244	340	272	323	**02B500M**	**02C500M**	**02C46**
	4 087	7 042	347	310	730	770	**03B500M**	**03C500M**	**03C94**
20	1 213	2 593	138	360	136	192	**01B2000**	**01C2000**	**01C25**
	2 430	4 776	244	340	272	323	**02B2000**	**02C2000**	**02C46**
	4 087	7 042	347	310	730	770	**03B2000**	**03C2000**	**03C94**
530	1 253	2 755	141	340	164	226	**01B530M**	**01C530M**	**01C26**
	2 658	5 137	258	330	309	351	**02B530M**	**02C530M**	**02C47**
	4 087	7 042	347	310	730	770	**03B530M**	**03C530M**	**03C94**
21	1 253	2 755	141	340	164	226	**01B2100**	**01C2100**	**01C26**
	2 658	5 137	258	330	309	351	**02B2100**	**02C2100**	**02C47**
22	1 294	2 916	142	330	178	??	**01B2200**	**01C2200**	**01C27**
	2 790	5 556	272	310	336	379	**02B2200**	**02C2200**	**02C48**
	4 669	8 511	383	280	635	671	**03EB2200**	**03EC2200**	**03EC94**

2.1 Split cylindrical roller bearings and cartridges

d_a **560 –600** mm

23 – 24 *in.*



Non-locating | Locating | Grease groove seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

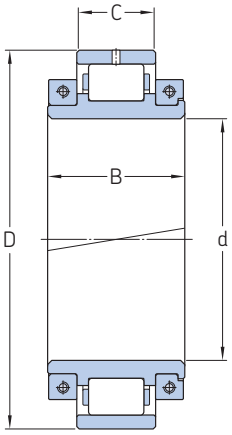
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
560	717,55	168	81	81	11	781,1	336	342
	793,75	233	122,2	122,2	18	866,8	356	380
	863,6	310	196,9	196,9	28	958,9	490	490
580	749,3	172	84,1	84,1	11	816	342	348
	812,8	232	119,1	119,1	16	882,7	356	380
23	749,3	172	84,1	84,1	11	816	342	348
	812,8	232	119,1	119,1	16	882,7	356	380
	890	310	184	184	27	990	490	490
600	774,7	172	84,1	84,1	11	841,4	342	348
	838,2	214	119,1	119,1	18	914,4	388	394
	890	310	184	184	27	990	490	490
24	774,7	172	84,1	84,1	11	841,4	342	348
	838,2	214	119,1	119,1	18	914,4	388	394

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

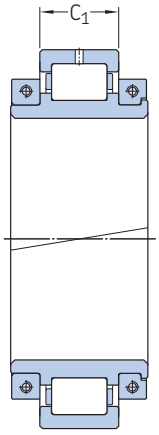
Shaft diameter	**Load ratings** dynamic	static	axial	**Limiting speed**	**Mass** Bearing	Cartridge	**Designations**[2] Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
560	1 294	2 916	142	330	178	252	**01B560M**	**01C560M**	**01C27**
	2 790	5 556	272	310	336	379	**02B560M**	**02C560M**	**02C48**
	4 669	8 511	383	280	635	671	**03EB560M**	**03EC560M**	**03EC94**
580	1 387	3 138	144	310	195	273	**01B580M**	**01C580M**	**01C28**
	2 336	4 836	227	300	340	386	**02B580M**	**02C580M**	**02C49**
23	1 387	3 138	144	310	195	273	**01B2300**	**01C2300**	**01C28**
	2 336	4 836	227	300	340	386	**02B2300**	**02C2300**	**02C49**
	4 887	9 130	400	270	680	720	**03EB2300**	**03EC2300**	**03EC95**
600	1 431	3 311	147	300	210	290	**01B600M**	**01C600M**	**01C29**
	2 905	5 992	300	290	381	454	**02B600M**	**02C600M**	**02C50**
	4 887	9 130	400	270	680	720	**03EB600M**	**03EC600M**	**03EC95**
24	1 431	3 311	147	300	210	290	**01B2400**	**01C2400**	**01C29**
	2 905	5 992	300	290	381	454	**02B2400**	**02C2400**	**02C50**

2.2 Examples of large size split cylindrical roller bearings

d **610 – 1 250** mm
25 – 40 *in.*



Non-locating



Locating

Cartridges and housings are available on request. For additional information, contact SKF.

Principal dimensions				Load ratings dynamic	static	Designation[1]
d	D	B	C, C_1	C	C_0	
mm/*in.*	mm			kN		–
610	780	172	84,1	1 431	3 311	**01B610M**
613,2	980	370[2]	200[2]	5 593	9 863	**03EB613,2M**
630	794	190	88	1 780	4 181	**01B630M**
	980	361,6	216	7 036	14 708	**03B630M**
25	866,78	219,08	117,48	2 724	5 833	**02B2500**
650	860	220	120	2 724	5 833	**02B650M**
	980	320	200	5 738	11 253	**03EB650M**
26	980	320	200	5 738	11 253	**03EB2600**
670	900	260	142	3 923	8 652	**02B670M**
	1 050	410	250	8 866	18 398	**03B670M**
27	864	170	94	1 761	4 014	**01B2700**
690	864	170	94	1 761	4 014	**01B690M**
710	890	185	95	1 817	4 234	**01B710M**
	980	290	155	3 530	7 019	**02B710M**
	1 090	383	230	8 594	17 990	**03B710M**
28	892,18	184,15	87,31	1 682	4 038	**01B2800**
750	971,55	206	101,6	2 321	5 685	**01B750M**
	990	240	140	3 554	7 582	**02B750M**
	1 060	310	185	5 173	10 544	**03B750M**
775	945	165	80	1 762	3 974	**01B775M**
850	1 046	200	106	2 555	6 401	**01B850M**
	1 112	260	156	4 335	9 585	**02B850M**
	1 220	250	410	9 527	21 543	**03B850M**

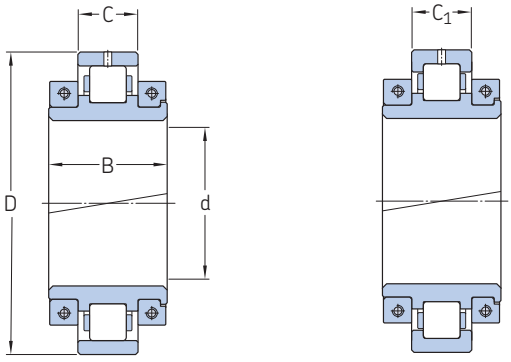
[1] Only basic designations are shown. A suffix is required to specify if the bearing is for the locating or non-locating position. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**.
[2] Dimensions of 03E B 613,2 refer to EXILOG type with roller and axial guide surfaces to outer ring only.

Principal dimensions				Load ratings		Designation[1]
				dynamic	static	
d	D	B	C, C_1	C	C_0	
mm/*in.*	mm			kN		–
860	1 170	330	190	5 698	12 404	**03B860M**
950	1 172	220	120	3 238	8 209	**01B950M**
	1 212	260	156	4 882	11 587	**02B950M**
	1 320	250	410	10 312	24 647	**03B950M**
40	1 270	260	139,7	3 958	10 084	**01B4000**
1 100	1 467	410	250	9 654	23 450	**03B1100M**
1 150	1 490	305	175	5 737	13 445	**4DSB1150M**
1 250	1 630	350	214	8 587	21 001	**03B1250M**

[1] Only basic designations are shown. A suffix is required to specify if the bearing is for the locating or non-locating position. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**.

2.3 Split cylindrical roller bearings, 04 series

d **340 – 1 550** mm
6 – 48 *in.*



Non-locating Locating

Principal dimensions				Load ratings		Limiting speed	Mass	Designation[1]
d	D	B	C, C_1	dynamic C	static C_0			
mm/*in.*	mm			kN		r/min	kg	–
6	257,18	79	38,1	198	246	3 000	14	**04B600**
10 5/8	365,13	103	48,4	336	367	2 470	27	**04B1010**
340	438,15	103	48,4	261	282	1 950	35	**04B340M**
13 1/2	438,15	103	48,4	261	282	1 950	34	**04B1308**
400	505	100	36	214	235	1 650	34	**04B400M**
17 1/2	546,1	108	48,4	302	367	1 460	45	**04B1708**
18 1/2	571,5	108	48,4	316	395	1 370	50	**04B1808**
20 3/4	635	114	48,4	326	423	1 210	54	**04B2012**
550	655	98	36	266	289	1 150	54	**04B550M**
22	666,75	101	38,1	361	452	1 130	54	**04B2200**
23	692,15	101	38,1	368	470	1 080	59	**04B2300**
24	717,55	101	38,1	413	543	1 020	61	**04B2400**
26 1/2	781,05	114	48,4	509	818	910	77	**04B2608**
30	882,65	114	44,5	372	509	780	95	**04B3000**
32	939,8	114	44,5	394	579	730	104	**04B3200**
33	965,2	114	44,5	403	602	705	104	**04B3300**
36	1 041,4	114	44,5	418	556	620	118	**04B3600**

[1] Only basic designations are shown. A suffix is required to specify if the bearing is for the locating or non-locating position. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**.

Principal dimensions				Load ratings		Limiting speed	Mass	Designation[1]
				dynamic	static			
d	D	B	C, C_1	C	C_0			
mm/*in.*	mm			kN		r/min	kg	–
1 060	1 220	127	60	954	1 472	560	180	**04B1060M**
44	1 295,4	168	76,2	1 339	1 822	140	200	**04B4400**
48	1 371,6	140	69,9	1 094	1 693	350	146	**04B4800**
1 295	1 435,1	127	63,5	988	1 606	340	193	**04B1295AM**
	1 473,2	168	76,2	1 831	2 877	120	313	**04B1295BM**
1 550	1 720	140	75	1 364	2 418	300	336	**04B1550M**

[1] Only basic designations are shown. A suffix is required to specify if the bearing is for the locating or non-locating position. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**.